



PORTABLE MAGNETIC TAPE RECORDER /REPRODUCER

MODEL 17373

Geotech LT/FM (Long-Term/Frequency Modulation) Portable Magnetic Tape Recorder, Model 17373, records 7 data-channels on 1/2-inch tape. IRIG-standard 15/160 ips is the operating speed; models with speeds from .03 through .1 ips are available. Real-time playback, using flux-responsive heads, is provided on all models. One playback channel is normally provided. This channel is switchable to any of the 7 channels available.



SPECIFICATIONS

RECORD

Channels	7
Input: Level	0 to 10v p-p
Impedance	50k ohm nominal
Type	Single or double ended
Center Frequency	84.4 cps
Maximum Deviation	40% (0.6v p-p to 10v p-p input, adjustable)
Linearity Error	± 1.0% of full bandwidth
Drift	± 1.0% of full bandwidth
Data Bandwidth	0 to 17 cps

THE GEOTECHNICAL CORPORATION

3401 SHILOH ROAD • GARLAND, TEXAS • 214-BR 8-8102 • CABLE: GEOTECH DALLAS



REPRODUCE

Channels	1 switchable to any track
Output: Level	3v nominal (p-p)
Impedance	100 ohms maximum
Type	Single ended
Dynamic Range	35db; p-p signal to p-p noise 40db; rms signal to rms noise
Frequency Response	0 to 17 cps \pm 3 db
Linearity Error	\pm 1%

MECHANICAL

Heads	IRIG Standard
Tracks	7
Tape	Instrumentation
Width	0.5 inch
Thickness	1.0 to 1.5 mil
Reels	10.5 inches or 14 inches, NAB Hubs
Speed	
Nominal	15/160 ips
Accuracy	\pm 0.25%

ENVIRONMENTAL

Shock	3g
Humidity	0 to 95%
Temperature	
Operating	+ 20°F to + 140°F
Storage	-65°F to + 185°F
Altitude	Up to 15,000 feet above MSL
Case	Weather-tight, aluminum

POWER

Voltage	
Nominal	+ 12, 0, -12v dc
Range	11 to 14v both legs
Power Requirements	8w, 4-channel record only 9w, 7-channel record only 12w, 7-channel record, and 1-channel playback

PHYSICAL SPECIFICATIONS

Size	18-1/2 x 22 x 8 in. (2 cu ft) 47 x 55.9 x 20.3 mm
Weight	35 lbs

OPERATIONAL FEATURES

End-of-tape sensor
Motor-driven fast forward
Record ON-OFF switch
Playback ON-OFF switch, channels 1-7
Manual pressure-roll release
Head tape lifters during fast forward mode

Direct record in place of FM will be available as an option.

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Dear Sir:

This letter and enclosed bulletin are in reply to your request for more information concerning Model 17373, the new Geotech portable recorder / reproducer.

Weighing only 35 pounds, Model 17373 provides highest quality recording for laboratory or stringent field applications. This suitcase-size LT/FM* unit records 7 channels of low-frequency data on a 14" reel of 1/2" tape continuously for 10 days. Operating speed is IRIG-standard 15/160 ips.

Real-time playback at ultra-slow-speeds is an LT/FM exclusive advantage. It permits monitoring while recording and makes possible exact signal reproduction. Dynamic range equal to that obtained in audio frequencies is produced by this unique flux-responsive playback system. Because drift compensation is not required, all channels are available for recording on a full-time basis.

All electronics are solid state. Power requirements: 24 volts dc, center tapped; ac optional.

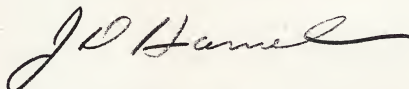
PRICE: \$8,750, F.O.B. Dallas, Texas.

Please contact me if you would like more information concerning Model 17373. We are prepared to modify this instrument, within the basic design concept, to meet any requirement.

Sincerely,

Demonstration unit now
available.

THE GEOTECHNICAL CORPORATION



J. D. Hamel

JDH:lr
Enclosure

*LT/FM: Long-Term/Frequency Modulation